



1606 North Seventh Street  
Terre Haute, IN 47804-2780  
(812) 238-7000

October 11, 2004

Nuclear Materials Licensing Branch  
Attn: Mr. William P. Reichhold  
United States Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

RE: NRC Material License  
No. 13-16457-01

Dear Mr. Reichhold:

Union Hospital wishes to inform you that since the Guidant Corporation will no longer support their Galileo III Intravascular Radiotherapy System (previously added to our license), we have discontinued intravascular brachytherapy. In support of this decision the last active P-32 source was shipped back to Guidant on August 12, 2004. The Galileo III Intravascular Radiotherapy Delivery Device was returned to the vendor on August 25, 2004. The locked storage cage for this device was placed in commission in December 2002 (per amendment #38).


We request amendment of our license to delete this activity and release the former Radiotherapy System Storage Cage for unrestricted use. In support of this request, please find attached, copies of the closeout survey (conducted August 25, 2004) and wipe test results on this space. The only isotope that was stored in this space was Phosphorous-32 (other than survey meter check sources in amounts less than 1  $\mu\text{Ci}$  (Cs-137)). The form for this isotope was solid  $\text{H}_3\text{PO}_4$  deposited inside a carrier tube and encapsulated inside a nickel-titanium alloy housing, as part of an intravascular brachytherapy source. The activity of the final therapy source was 348 mCi (12.9 Gbq) as of July 01, 2004. The calculated activity at the time of shipment was 45.4 mCi (1.7 GBq).

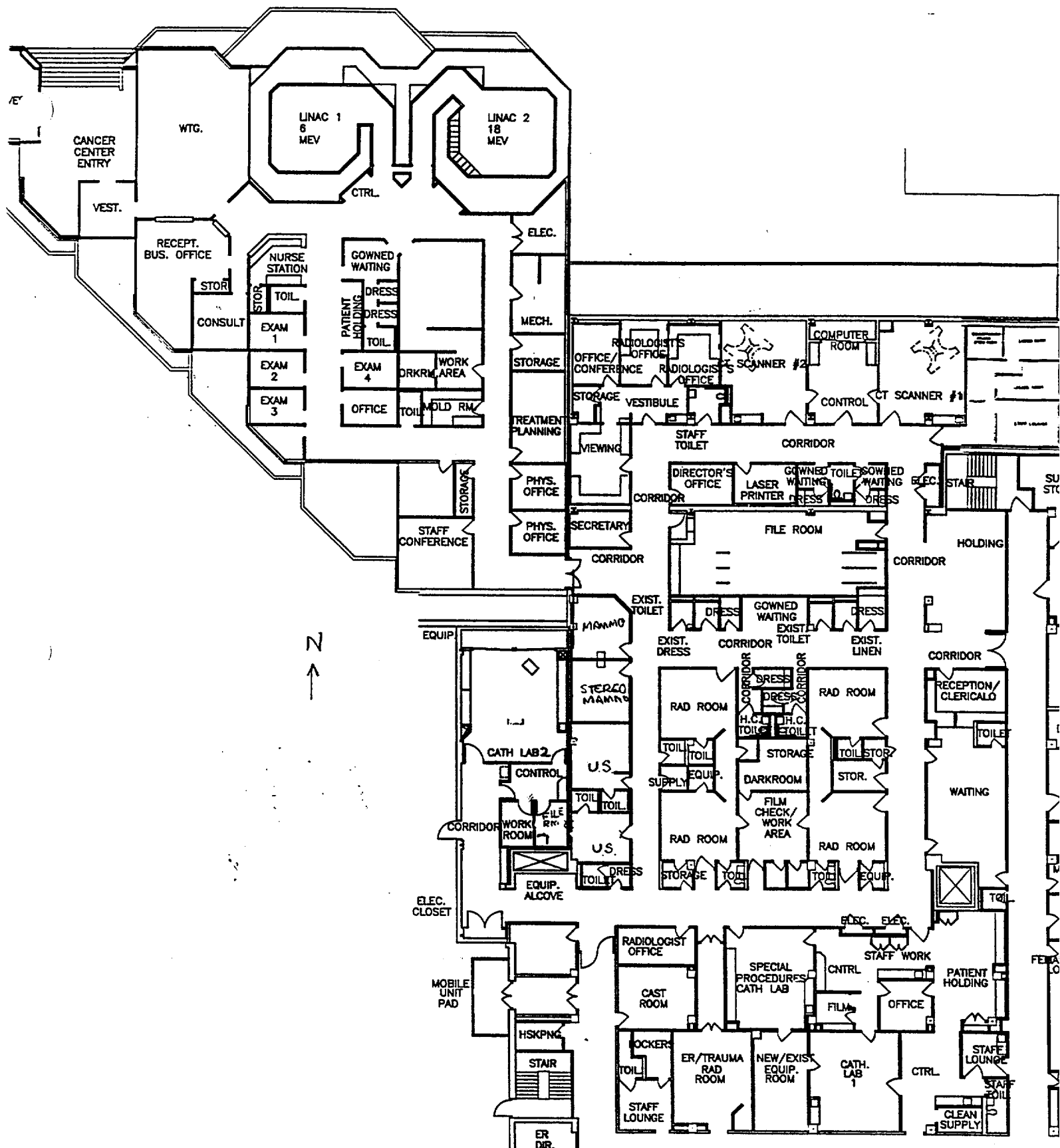
If you have any questions regarding these requests please contact our Radiation Safety Officer, Rasiklal Ganatra, MD at (812) 238-7581 or Dean Taylor our Radiation Safety Consultant at (812) 894-2554.

Sincerely,

A handwritten signature in black ink, appearing to read "David R. Doerr". The signature is fluid and cursive, with a prominent loop at the end.

David R. Doerr  
President/Chief Executive Officer

DECOMMISSIONING SURVEY FOR RADIOACTIVE CONTAMINATION			
Surveyor:	Dean A. Taylor, M.S. ISDH Approved Physicist		Report Date:
Survey Location:	West Building Cardiac Cath Laboratory		August 25, 2004
	Union Hospital, Inc.		
	1606 North Seventh Street		
	Terre Haute, Indiana 47804-2780		
Survey Dates:	Removable Contamination Sampled:		August 25, 2004
	Direct Reading Environmental Radiation Survey:		August 25, 2004
Instrument Used:	Area Survey Meter (NaI Crystal Detector)		
Manufacturer:	Ludlum Radiation Measurements	Model: 2221	Meter Serial #: 71251
		Model: 44-2-5	Probe Serial #: PRO-72100
Calibration conducted by manufacturer:			March 17, 2004
Sealed sources stored in the facility:		Phosphorous-32, Cesium-137	
RAM Storage Dates:		December 06, 2002 to August 12, 2004	
The following documents are attached:			
1) Floor Plan Indicating Survey Points			
2) Direct Reading Environmental Radiation Survey Results			
3) Removable Contamination Survey Results			
Surveyor:			Date: September 02, 2004
ISDH Approved Physicist (#264)			

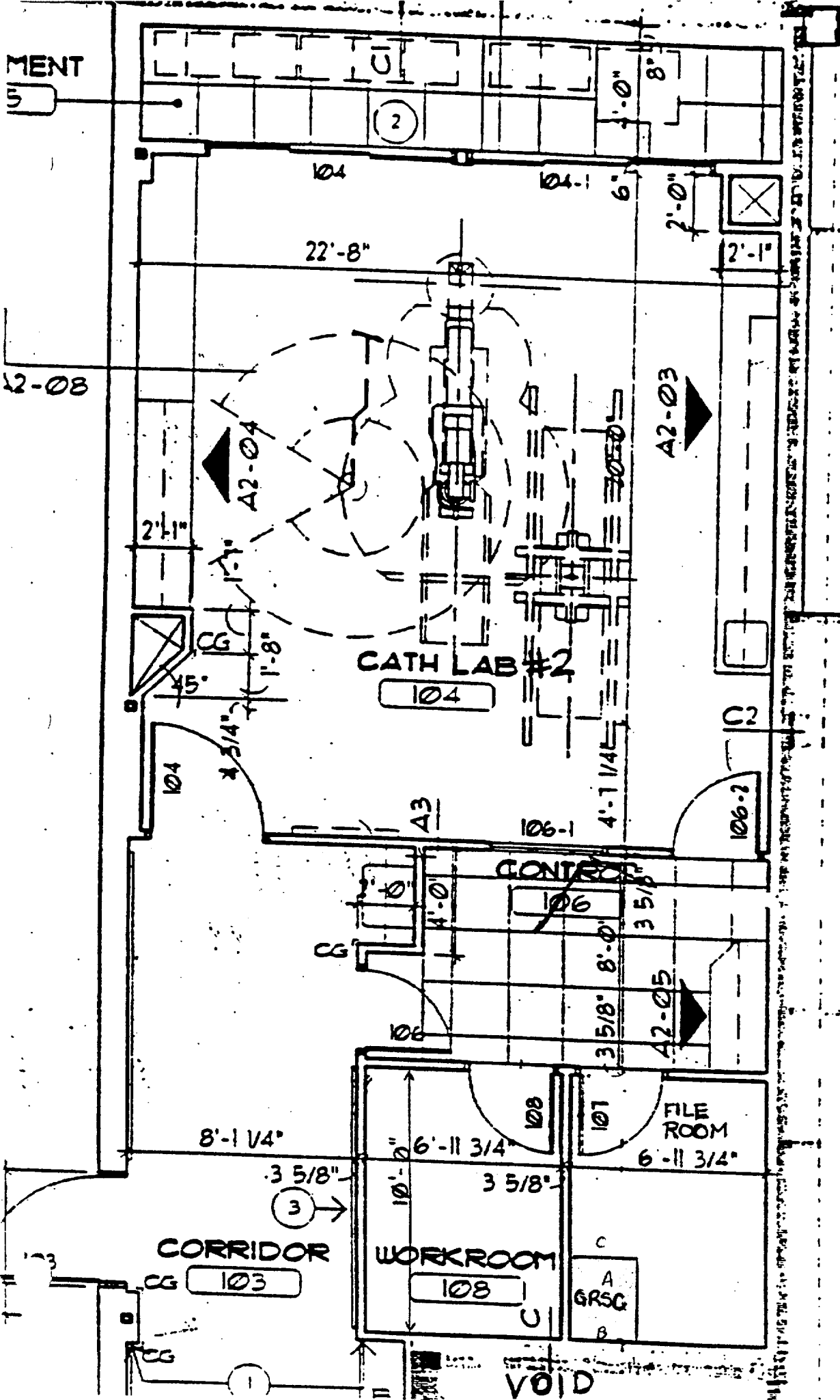


Cath Labs 1 & 2 (Highlighted in Orange).  
 Galileo Radiotherapy System Storage Cage (GRSC) (Highlighted in Green).  
 Previously identified brachytherapy source storeroom (Highlighted in Yellow).  
 Detailed drawings of all identified spaces are attached.

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**DECOMMISSIONING SURVEY FOR RADIOACTIVE CONTAMINATION  
INTRAVASCULAR BRACHYTHERAPY DEVICE STORAGE LOCKER - UNION HOSPITAL  
ENVIRONMENTAL RADIATION SURVEY RESULTS**

Date: August 25, 2004 | Instrument: Area Survey Meter (1.5" NaI Crystal Detector)

Background Readings	Initial: 200 Counts/Minute	Final: 210 Counts/Minute
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**Average Background Reading: 2250 Counts/Minute**

[illegible]

**Comment:** No remedial action is indicated.

RSSI

6312 W. Oakton Street  
Morton Grove, IL 60053-2723  
847-965-1999

AREA CONTAMINATION

~~SEALED SOURCE LEAK~~ TEST INFORMATION SHEET

Facility: UNION HOSPITAL (UHHG)  
Address: CATH LAB  
1606 NORTH SEVENTH ST  
TERRE HAUTE, IN 47804-2780  
Telephone: (812) 238 7184  
License No.: 13-16457-01

Purchase Order Number: PRE PAID  
Person Submitting Samples: DEAN TAYLOR  
Date Samples Collected: AUGUST 25, 2004  
Send Results To: BEACON X-RAY TESTING, INC  
5696 SOUTH ERNEST ST.  
TERRE HAUTE, IN 47802-9499

CLIENT REFERENCE	RADIO- NUCLIDE	ACTIVITY (mCi)	SOURCE CALIBRATION DATE	DEVICE MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FOR LAB USE ONLY
INSIDE	P-32	*	*	IVBT CAGE	_____	_____	
OUTSIDE	P-32	*	*	IVBT CAGE	_____	_____	

Return samples, gloves, and this form. You will be contacted by telephone if results show activity on sample greater than 0.005  $\mu$ Ci.

\* LAST SOURCE SHIPPED BACK TO MANUFACTURER AUG 12, 2004  
ACTIVITY AT TIME OF SHIPMENT 45.4 mCi (1.7 GBq)

# RSSI

SEP 2 2004

6312 W. Oakton Street  
Morton Grove, IL 60053-2723  
847-965-1999

## AREA CONTAMINATION TEST ANALYSIS REPORT

Facility: Union Hospital  
Address: Cath Lab  
1606 North Seventh Street  
Terre Haute, IN 47804-2780  
Telephone: 812-238-7184  
FAX:  
License No.: 13-16457-01

Purchase Order Number:  
Person Submitting Samples: Dean Taylor  
Date Samples Collected: 08/25/04  
Send Results To: Beacon X-ray Testing, Inc.  
Attn: Dean Taylor, MS  
5696 South Ernest Street  
Terre Haute, IN 47802-9499

RSSI SAMPLE NUMBER	CLIENT REFERENCE	RADIO- NUCLIDE	ACTIVITY (mCi)	SOURCE CALIBRATION DATE	DEVICE MANUFACTURER	SOURCE MODEL NUMBER	SOURCE SERIAL NUMBER	RESULTS* ( $\mu$ Ci)
042908	Inside	P-32	-	-	IVBT Cage	-	-	$< 2.4 \times 10^{-6}$
041798	Outside	P-32	-	-	IVBT Cage	-	-	$< 2.4 \times 10^{-6}$

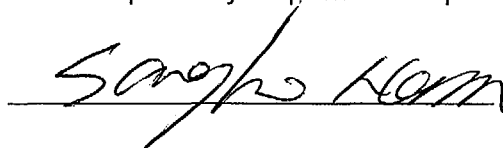
Analysis authorized by license No. IL-01429-01. Analysis approved by the Canadian Nuclear Safety Commission of Canada, meeting the criteria and requirements of R-116. Analysis instrument: Nuclear-Chicago Spectro Shield 1152  $\alpha/\beta$  counter. Serial number 28458. Calibrated February 6, 2004. Measuring time = 5 minutes. Alpha background = 0.17 cpm. Beta/Gamma background = 2.30 cpm.

Most regulatory agencies consider a source to be leaking if a leak test indicates the presence of more than  $0.005 \mu\text{Ci}$  ( $5 \times 10^{-3} \mu\text{Ci}$ ) of removable contamination. Sources for which the results indicate the presence of  $5 \times 10^{-4} \mu\text{Ci}$  or more of removable activity should be investigated.

\* < followed by a number indicates the activity is below the limit of detection.

A highlighted result exceeds regulatory limits and was reported by telephone to the person submitting the sample and/or \_\_\_\_\_ on \_\_\_\_\_.

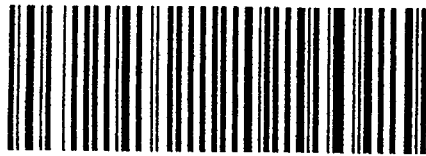
Analyzed by: Sangho Nam  
042909



Date: August 30, 2004

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**CERTIFIED MAIL**



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10/21/2004

Mailed From 47804  
**US POSTAGE**

**FIRST CLASS**

Union Hospital, Inc., 1606 N. 7<sup>th</sup> St., Terre Haute, IN 47804-2780

**To: William P. Reichhold  
Nuclear Materials Licensing Branch  
USNRC, Region III  
2443 Warrenville Road, Ste 210  
Lisle, Illinois 60532-4352**

**RETURN RECEIPT  
REQUESTED**